Parameterization - soils status "failed"
Posted by waltz - 2009/12/29 00:26

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Hi, Shea

I tried to run parameterization using STATSGO soils in San Pedro Watershed (including upper and lower san pedro watershed), but the message turned out "soils status failed". I merged soil STATSGO in AZ with the statsgo in upper san pedro (the file in tutorial 1). I noticed that the soil ID in these two files are different, one with MUKEY, the other with MUID. How can I solve this problem? Or would you please tell me where you downloaded the soil statsgo of Mexico part (southern part of upper san pedro)? Actually, I run the simulation using FAO soil, and it worked. But the resolution of FAO soil is too low.

One more question: I downloaded SUURGO soils from NRCS for San Pedro watershed, but some area in this watershed has no data. Can I make it up by using STATSGO? I am going to try this when I solve the first problem.

I am looking forward to your reply.

Thanks
Wenming
USEPA NERL-ESD-Landscape Ecology Branch

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Re:Parameterization - soils status "failed"
Posted by isburns - 2010/02/11 06:36

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Hi Wenming,
Unfortunately, merging STATSGO with MUID and STATSGO with MUKEY will not work, as you have discovered. I'm not sure where we obtained the Mexico soils, but we had to manually classify it to match the STATSGO with MUID 7+ years ago. To get the Mexico soils to work with the STATSGO with MUKEY, the same manual classification would need to be done. This would require creating an MUKEY field for the Mexico data and assigning it the appropriate MUKEY. I just quickly checked and I believe the MUIDs that appear in the Mexico data all appear in the Arizona data also, so you should be able to get the appropriate MUKEY for the Mexico data by overlapping the STATSGO with MUKEY and STATSGO with MUID and comparing their values.

I've never tried substituting STATSGO data for missing SSURGO data, but theoretically it should work if both products use MUKEYs. The only complication that I could see is if STATSGO and SSURGO do not not have unique MUKEYs, but I'm guessing they do. You'd just need to merge the shapefiles and then import both the SSURGO tables and the STATSGO tables into the Access soils database.

Let me know if that cleared things up or if you have any more questions.

Thanks
Shea

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